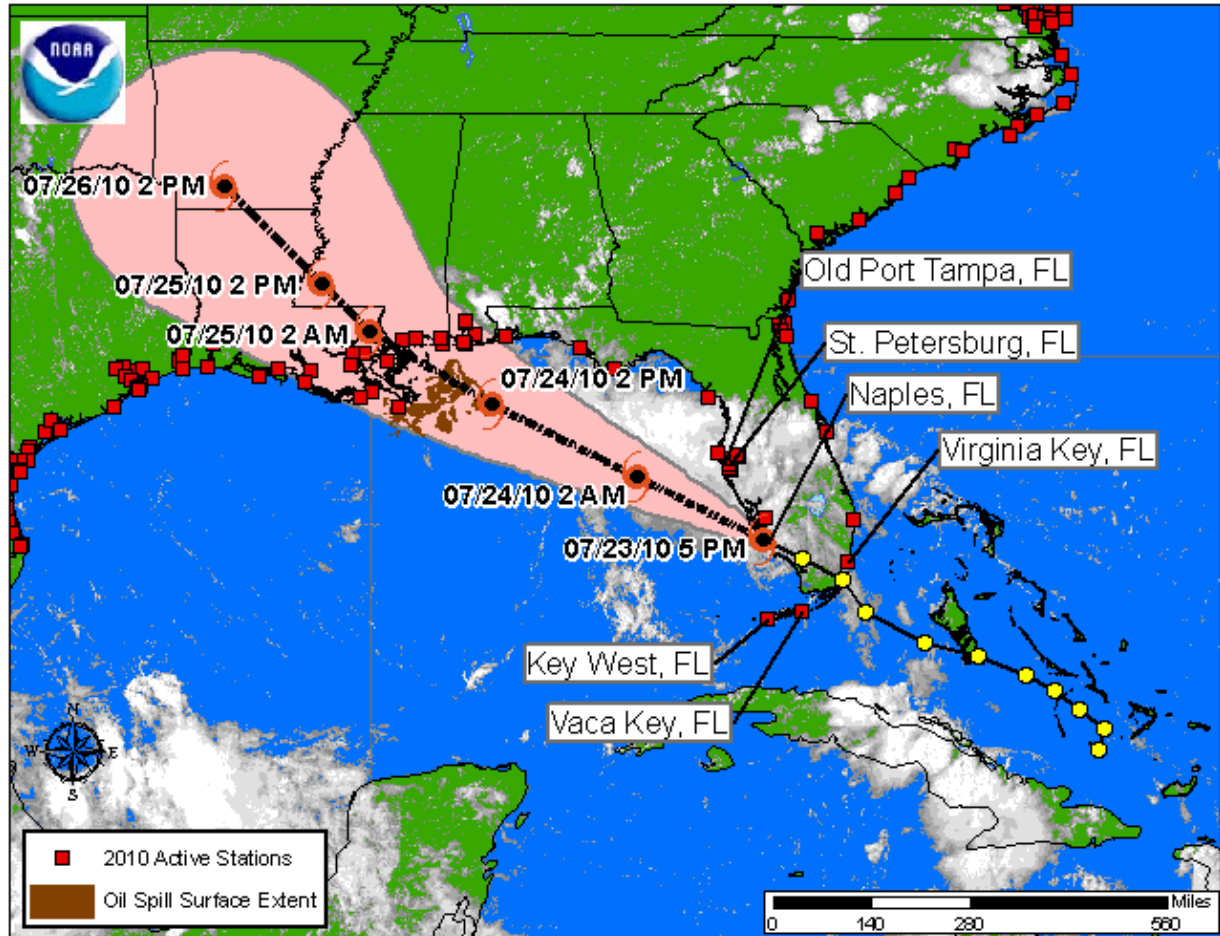




Tropical Depression BONNIE QuickLook  
Posted: 18:00 EDT 07/23/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/23/2010 18:00 EDT, water levels across the Florida Keys are about 0.5 feet above predictions. Water levels along the west coast of Florida from Naples to Old Port Tampa are at or near predicted. Wind speeds are generally ranging from 5 to 15 kts with some gusts up to 25 kts recorded over the past 6 hours. Barometric pressure is falling slightly across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Old Port Tampa, FL: Next predicted high tides are 1.86 ft (0.56 m) at 07/24/2010 03:57 EDT and 3.01 ft (0.92 m) at 07/24/2010 13:37 EDT.

**St. Petersburg, FL:** Next predicted high tides are 1.52 ft (0.46 m) at 07/24/2010 04:05 EDT and 2.66 ft (0.81 m) at 07/24/2010 13:06 EDT.

**Naples, FL:** Next predicted high tides are 2.21 ft (0.67 m) at 07/24/2010 01:18 EDT and 3.23 ft (0.98 m) at 07/24/2010 11:36 EDT.

**Key West, FL:** Next predicted high tides are 0.95 ft (0.29 m) at 07/23/2010 22:15 EDT and 1.96 ft (0.60 m) at 07/24/2010 09:20 EDT.

**Vaca Key, FL:** Next predicted high tides are 0.48 ft (0.15 m) at 07/24/2010 03:16 EDT and 0.89 ft (0.27 m) at 07/24/2010 12:18 EDT.

**Virginia Key, FL:** Next predicted high tides are 2.06 ft (0.63 m) at 07/23/2010 20:14 EDT and 1.98 ft (0.60 m) at 07/24/2010 08:23 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:PFF

---

**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

**TROPICAL DEPRESSION BONNIE ADVISORY NUMBER 6**

**500 PM EDT FRI JUL 23 2010**

**...BONNIE WEAKENS TO A TROPICAL DEPRESSION...**

**WATCHES AND WARNINGS**

**CHANGES WITH THIS ADVISORY...**

**THE TROPICAL STORM WARNING FOR THE WEST COAST OF FLORIDA AND THE TROPICAL STORM WATCH FOR LAKE OKEECHOBEE HAVE BEEN DISCONTINUED.**

**SUMMARY OF WATCHES AND WARNINGS IN EFFECT...**

**A TROPICAL STORM WARNING IS IN EFFECT FOR...**

**\* DESTIN FLORIDA TO MORGAN CITY LOUISIANA...INCLUDING LAKE PONTCHARTRAIN**

**FOR STORM INFORMATION SPECIFIC TO YOUR AREA INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.**

**DISCUSSION AND 48-HOUR OUTLOOK**

-----  
AT 500 PM EDT THE CENTER OF TROPICAL DEPRESSION BONNIE WAS LOCATED ABOUT 485 MI ESE OF THE MOUTH OF THE MISSISSIPPI RIVER AND ABOUT 35 MI S OF FT. MYERS FLORIDA. THE DEPRESSION IS MOVING TOWARD THE WEST-NORTHWEST NEAR 18 MPH. THIS GENERAL TRACK WITH A DECREASE IN FORWARD SPEED IS EXPECTED DURING THE NEXT TWO DAYS. BONNIE IS EXPECTED TO MOVE OVER THE EASTERN GULF OF MEXICO TONIGHT AND SATURDAY AND REACH THE NORTHERN GULF COAST LATE SATURDAY.

MAXIMUM SUSTAINED WINDS HAVE DECREASE TO NEAR 35 MPH WITH HIGHER GUSTS. BONNIE COULD REGAIN TROPICAL STORM STRENGTH WHEN IT MOVES OVER THE GULF OF MEXICO.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1009 MB...29.80 INCHES.

#### HAZARDS AFFECTING LAND

-----

WIND...WINDS WILL CONTINUE TO DECREASE IN SOUTH FLORIDA WHILE TROPICAL STORM FORCE WINDS MAINLY IN SQUALLS WILL LIKELY BEGIN ALONG PORTIONS OF THE NORTHERN GULF COAST WITHIN THE WARNING AREA ON SATURDAY.

RAINFALL...BONNIE IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 1 TO 3 INCHES OVER PORTIONS OF SOUTHEASTERN LOUISIANA...SOUTHERN ALABAMA...SOUTHERN MISSISSIPPI...AND THE FAR WESTERN FLORIDA PANHANDLE...WITH POSSIBLE ISOLATED MAXIMUM AMOUNTS OF 5 INCHES. ADDITIONAL RAINFALL AMOUNTS OF 1 TO 2 INCHES ARE POSSIBLE OVER CENTRAL AND SOUTH FLORIDA THROUGH THIS EVENING.

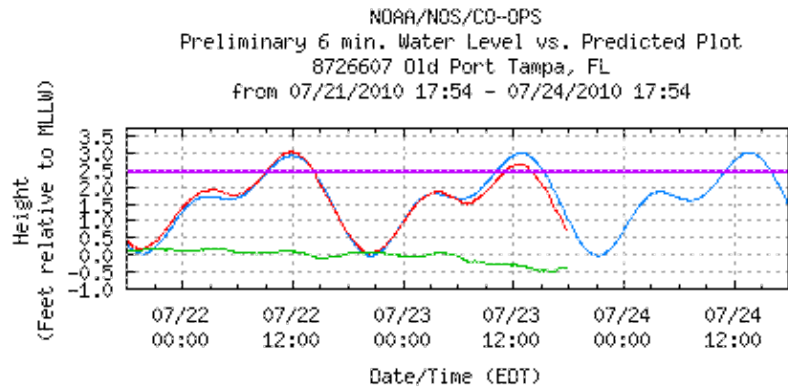
STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 3 TO 5 FEET ABOVE GROUND LEVEL ALONG THE IMMEDIATE COAST NEAR AND TO THE RIGHT OF WHERE THE CENTER MAKES LANDFALL ON THE NORTHERN GULF COAST.

FORECASTER AVILA/ROBERTS

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Old Port Tampa - Water Level](#), [Old Port Tampa - Winds](#), [St. Petersburg - Water Level](#), [St. Petersburg - Winds](#), [St. Petersburg - Barometric](#), [St. Petersburg - Air/Water Temp](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#), [Key West - Water Level](#), [Key West - Barometric](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#),

**Old Port Tampa, FL** - [Return to List](#)



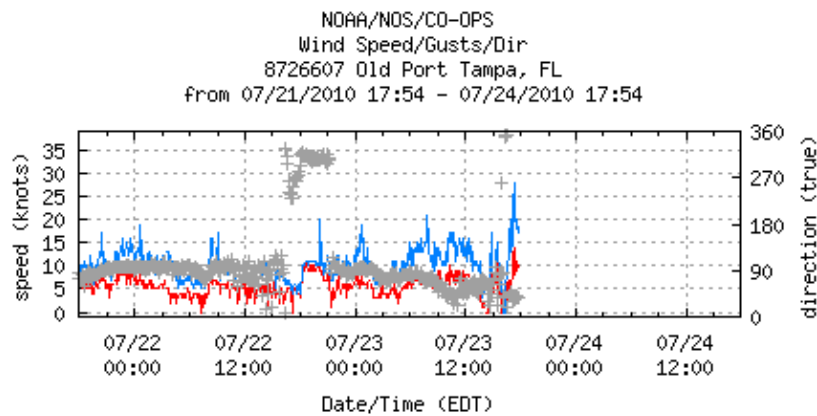
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 0.76 ft. Predicted: 1.16 ft. Residual: -0.40 ft.**

Historical Maximum Water Level: Oct 8 1996, 3.56 ft. above **MHHW**

**Old Port Tampa, FL** - [Return to List](#)

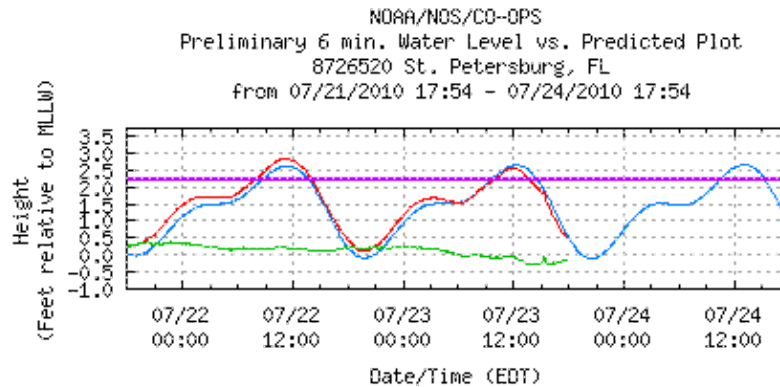


speed — gusts — direction +

Last Observed Sample: 07/23/2010 17:42 (EDT)

**Wind Speed: 10 knots Gusts: 17 knots Direction: 036° T**

**St. Petersburg, FL** - [Return to List](#)

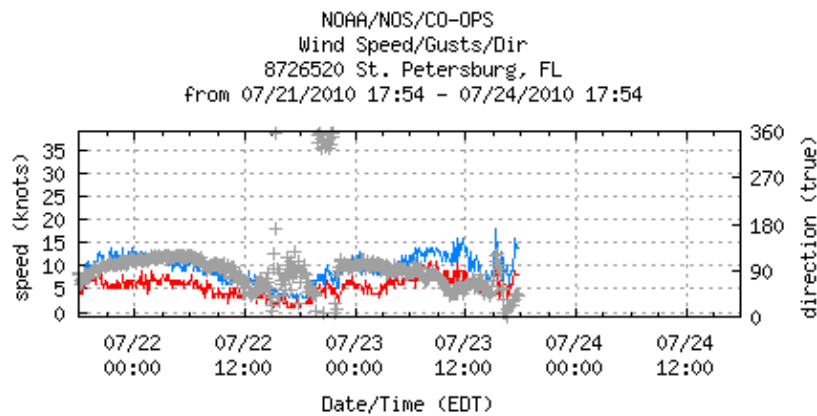


Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 0.51 ft. Predicted: 0.65 ft. Residual: -0.14 ft.**

Historical Maximum Water Level: Aug 31 1985, 4 ft. above **MHHW**

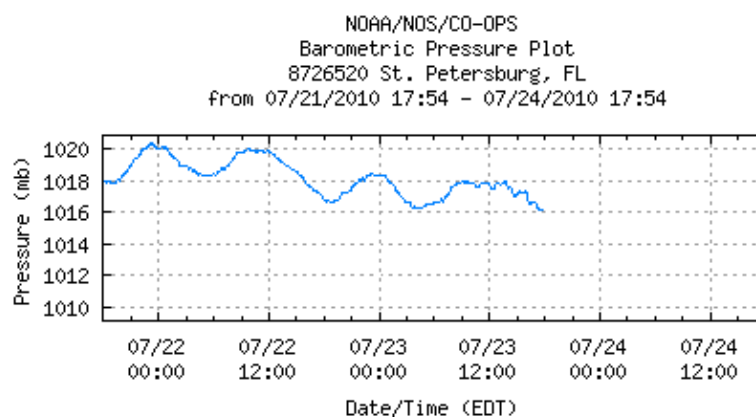
**St. Petersburg, FL** - [Return to List](#)



Last Observed Sample: 07/23/2010 17:42 (EDT)

**Wind Speed: 8 knots Gusts: 14 knots Direction: 040° T**

**St. Petersburg, FL** - [Return to List](#)

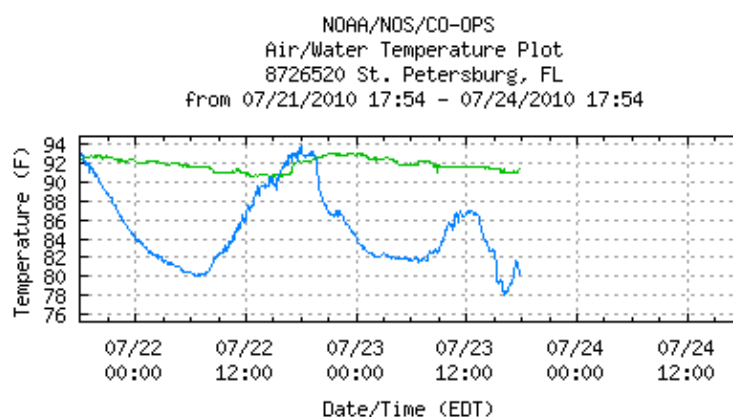


barometric pressure —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Barometric Pressure: 1016.2 mb**

**St. Petersburg, FL** - [Return to List](#)

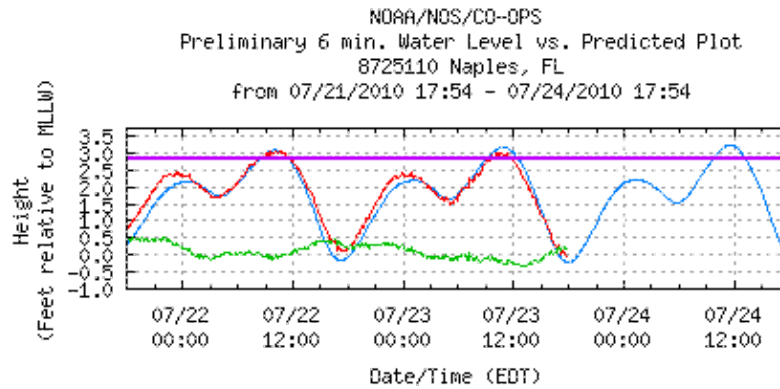


water temp. — air temp —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Water Temperature: 91.2° F Air Temperature: 80.2° F**

**Naples, FL** - [Return to List](#)



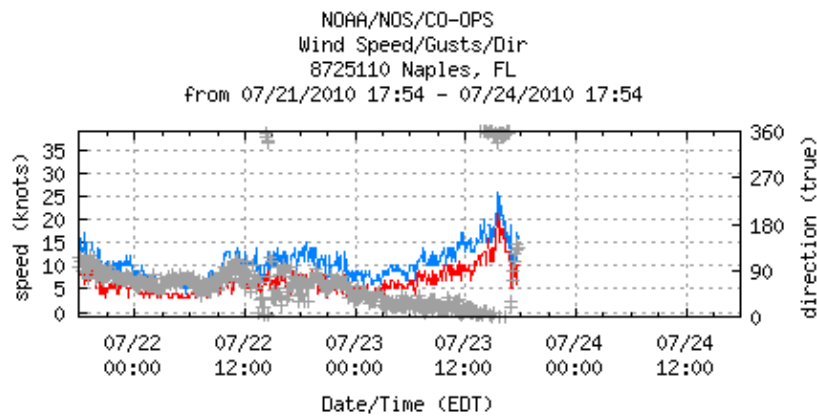
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: -0.02 ft. Predicted: -0.21 ft. Residual: 0.19 ft.**

Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

**Naples, FL** - [Return to List](#)

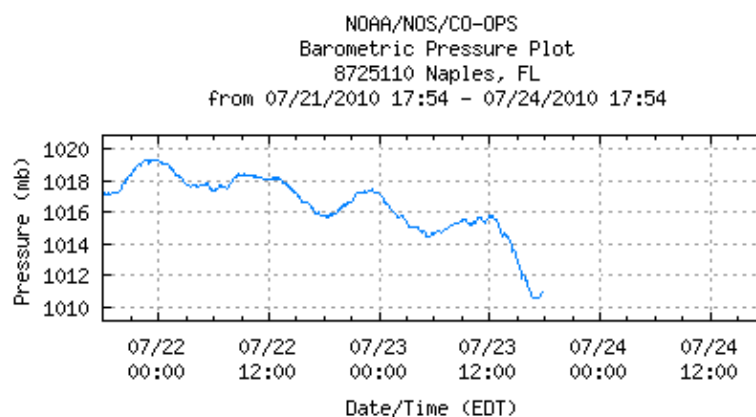


speed — gusts — direction +

Last Observed Sample: 07/23/2010 17:42 (EDT)

**Wind Speed: 10 knots Gusts: 16 knots Direction: 135° T**

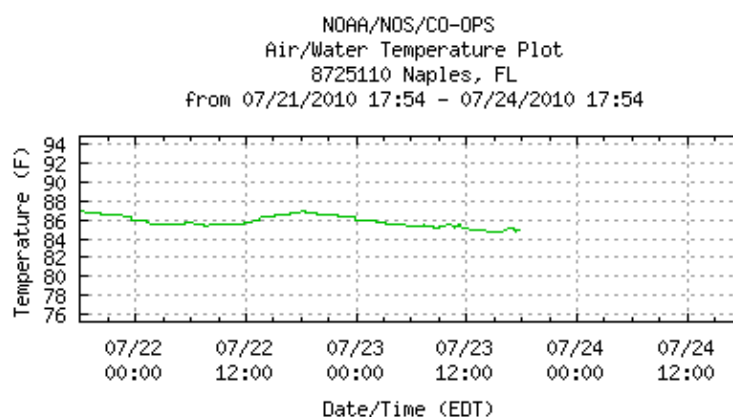
**Naples, FL** - [Return to List](#)



Last Observed Sample: 07/23/2010 17:42 (EDT)

Barometric Pressure: 1010.9 mb

**Naples, FL** - [Return to List](#)

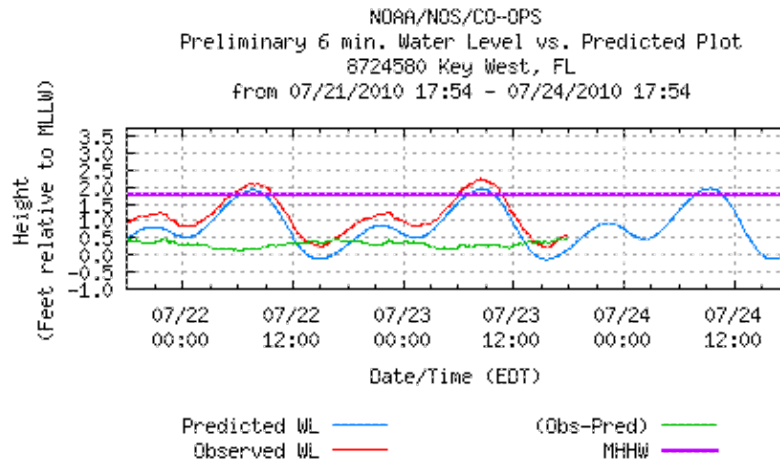


Last Observed Sample: 07/21/2010 17:54 (EDT)

Water Temperature: 86.9° F Air Temperature: n/a



**Key West, FL** - [Return to List](#)

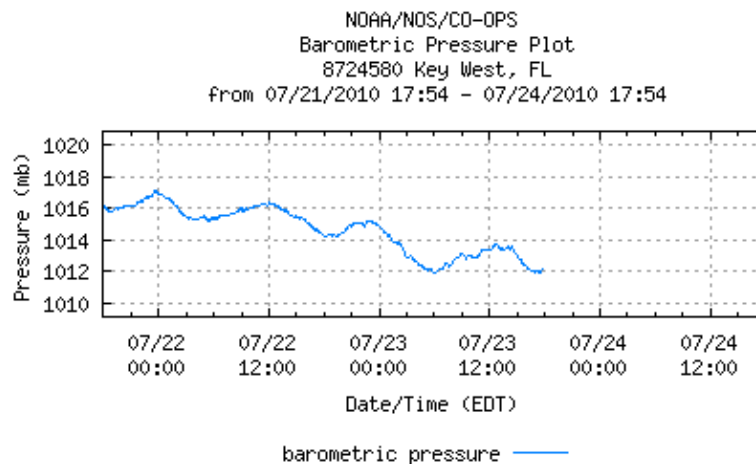


Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 0.58 ft. Predicted: 0.12 ft. Residual: 0.46 ft.**

Historical Maximum Water Level: Sep 8 1965, 1.93 ft. above **MHHW**

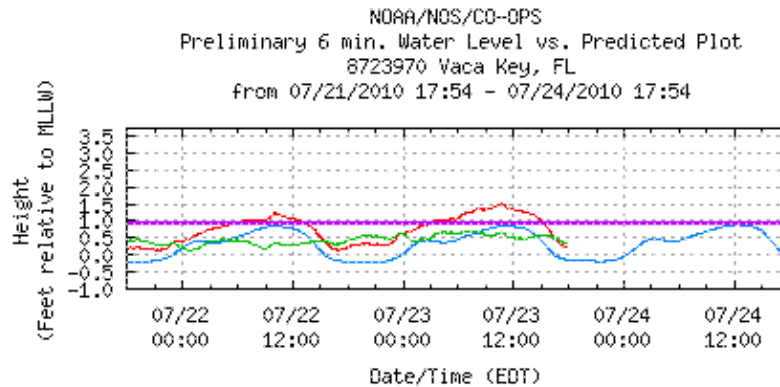
**Key West, FL** - [Return to List](#)



Last Observed Sample: 07/23/2010 17:42 (EDT)

**Barometric Pressure: 1012.1 mb**

**Vaca Key, FL** - [Return to List](#)



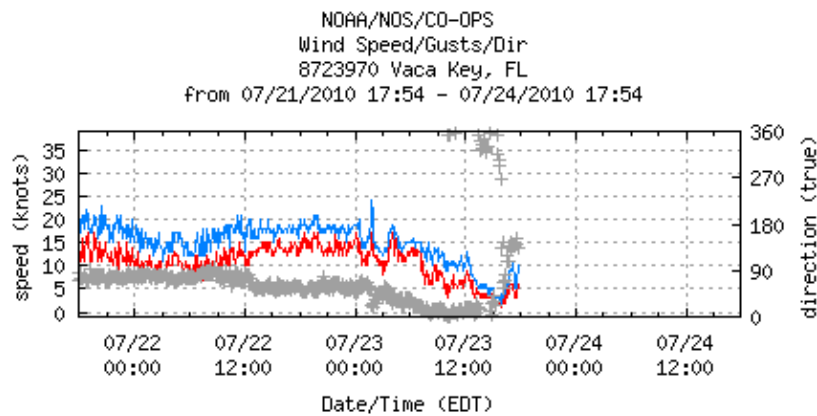
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 0.22 ft.** **Predicted: -0.13 ft.** **Residual: 0.35 ft.**

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

**Vaca Key, FL** - [Return to List](#)

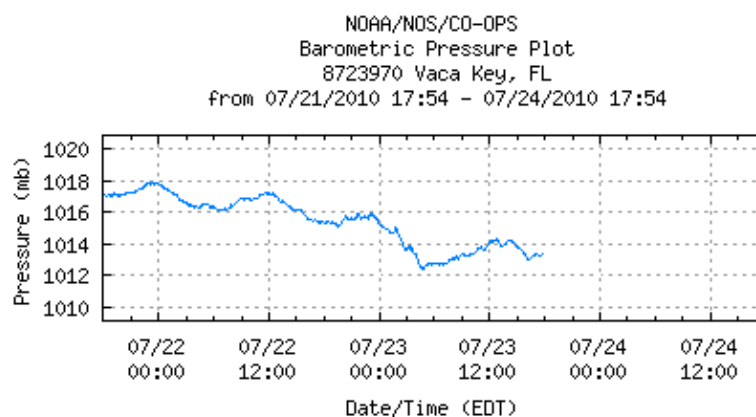


speed — gusts — direction +

Last Observed Sample: 07/23/2010 17:42 (EDT)

**Wind Speed: 6 knots** **Gusts: 10 knots** **Direction: 132° T**

**Vaca Key, FL** - [Return to List](#)

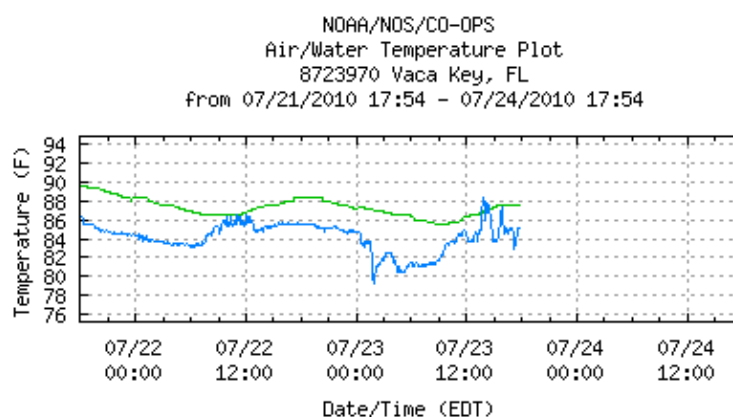


barometric pressure —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Barometric Pressure: 1013.3 mb**

**Vaca Key, FL** - [Return to List](#)

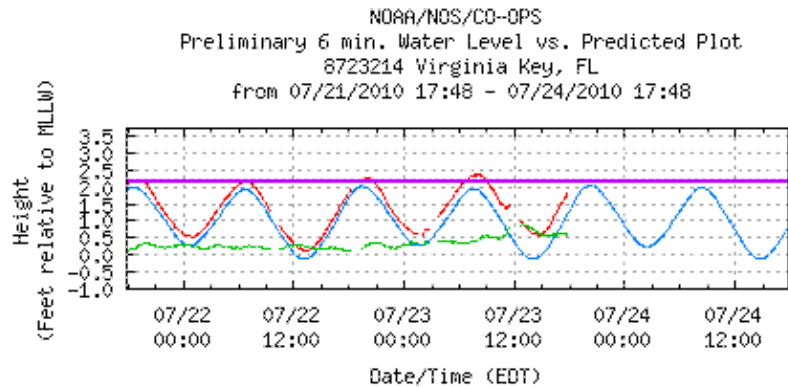


water temp. — air temp —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Water Temperature: 87.6° F Air Temperature: 85.1° F**

**Virginia Key, FL** - [Return to List](#)



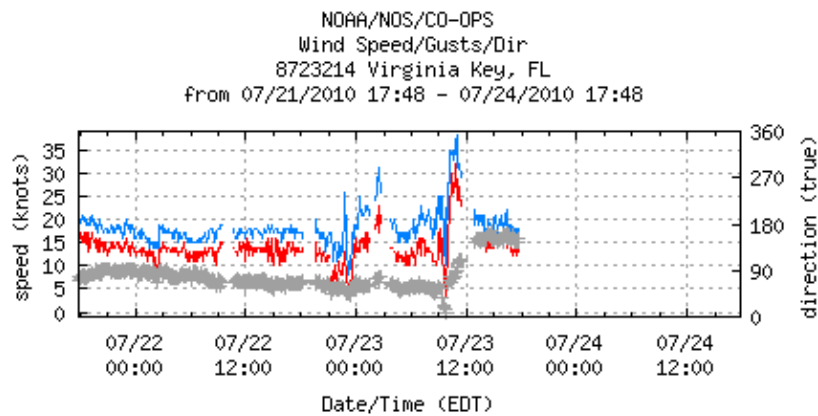
Predicted WL — (Obs-Pred) —  
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 1.80 ft. Predicted: 1.17 ft. Residual: 0.63 ft.**

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

**Virginia Key, FL** - [Return to List](#)

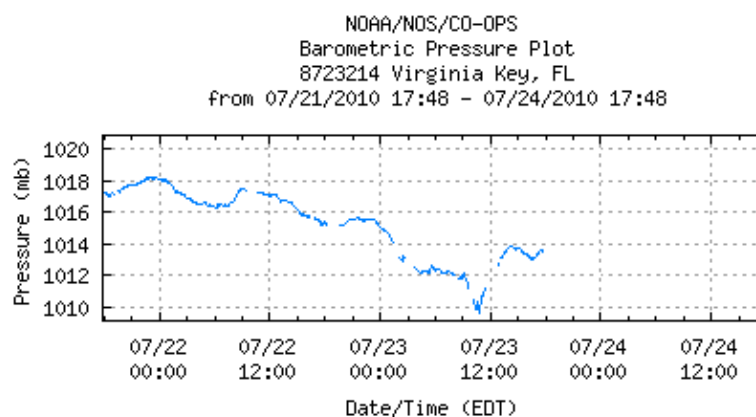


speed — gusts — direction +

Last Observed Sample: 07/23/2010 17:42 (EDT)

**Wind Speed: 13 knots Gusts: 17 knots Direction: 152° T**

**Virginia Key, FL** - [Return to List](#)

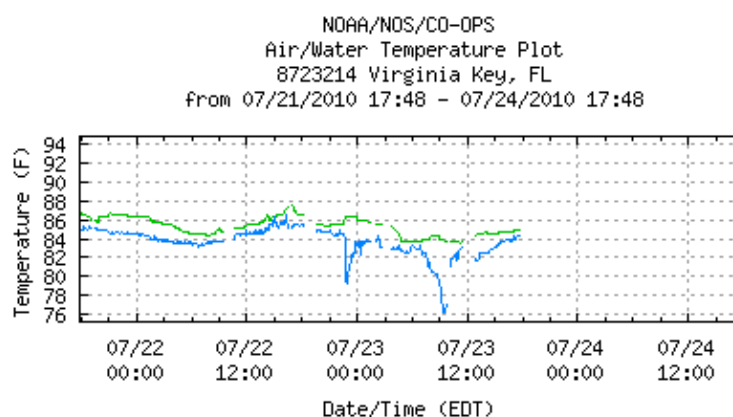


barometric pressure —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Barometric Pressure: 1013.5 mb**

**Virginia Key, FL** - [Return to List](#)



water temp. — air temp —

**Last Observed Sample: 07/23/2010 17:42 (EDT)**

**Water Temperature: 84.9° F Air Temperature: 84.2° F**

## Tropical Depression BONNIE QuickLook, POSTED 18:00 EDT 07/23/2010

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce